INCH-POUND

MS25268K 27 November 2003 SUPERSEDING MS25268J 20 Jan 1989

DETAIL SPECIFICATION SHEET

RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED

INACTIVE FOR NEW DESIGN AFTER 5 JUNE 1987. NO SUPERSEDING SPECIFICATION. FOR NEW DESIGN USEMIL-PRF-83536/5 OR MIL-PRF-83536/6.

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the relay described herein shall consist of this specification and the latest issue of MIL-PRF-6106.

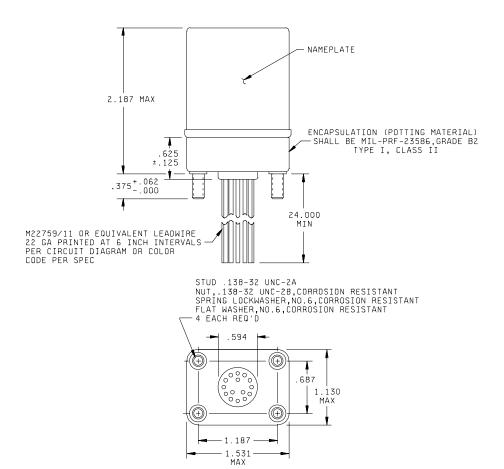
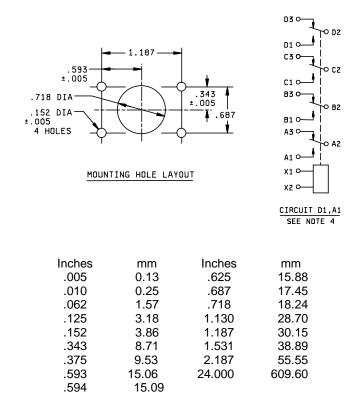


FIGURE 1. Dimensions and configurations.



NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
- 4. The use of diodes on ac relays in optional. Actual application must be shown on label.
- 5. In the event of conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.
- 6. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.

FIGURE 1. <u>Dimensions and configurations</u> - Continued.

TABLE I. Dash numbers and characteristics.

Dash number MS25268-	Туре	Coil	Terminal type	Mounting	Max weight in pounds
D1	I	dc	Wire lead	Stud	.57
A1	I	ac	Wire lead	Stud	.57

TABLE II. Operating characteristics.

	Coil data											Time - milliseconds max						
Coil		Rated			Max I		<u>1</u> / Max pick-up voltage							Contact Boun				
PIN MS25268-		Volts 1/	Freq Hz	Res Ω	Volts	Amp	Nor- mal <u>2</u> /	High temp test	Cont cur- rent test	Hold vol- tage <u>2</u> /	Drop out vol- tage <u>2</u> /	Op- erate <u>3</u> /	Rel- ease <u>4</u> /	NO Ma	nC	NO A	NC	
D1	X1, X2	28	dc	N/A	29	0.15	18	19.8	22.5	7.0	1.5	20	20	2	2	N/A	N/A	
A1	X1, X2	115	400	N/A	122	0.05	90	95	103	30	5.0	25	50	2	2	N/A	N/A	

- 1/ CAUTION: Use of any coil voltage less than rated coil voltage will compromise the operation of the relay.
- 2/ Over the temperature range.
- 3/ With rated coil voltage.
- 4/ From rated coil voltage.

TABLE III. Rated contact load (amperes per pole) (case grounded).

	Life operat		28 V (dc 115 V ac, 1 phase						115/	See			
Type of load ing		Main		Aux		Main		Aux		Main		Aux		appro
	cycles	NO	NC	NO	NC	400	60	400	60	400	60	400	60	priate
	x 10 ³					Hz	Hz	Hz	Hz	Hz	Hz	Hz	Hz	notes
Resistive	100	5	5			5	4							
Inductive	100													
Inductive	20	3	3			3	2							
Motor	100	1.5	1.5			1.5	1							
Lamp	100	0.8	0.8			0.8	0.6							
Transfer load														<u>2</u> /
Mechanical life reduced current	400	1.25	1.25			1.25	1							
Mixed loads	Applicable per specification													

- 1/ Absence of value indicates relay is not rated for 3-phase application. 2/ Transfer load indicates relay is suitable for transfer between unsynchronized ac power supplies at rating indicated.

Environmental characteristics.

Temperature range -70°C to +125°C

Max altitude rating 80,000 ft Shock G-level 50 g's Duration 11 ms Max duration contact opening 10μs Vibration - sinusoidal (see chart below) G-level 10 g's Frequency range 5 - 1,500 Hz

Vibration - random

Applicable spec N/A
Power spectral density N/A
RMS G min N/A
Frequency range N/A
Curve N/A
High shock N/A
Acceleration 15 g's

Electrical characteristics.

Minimum insulation resistance, initial 100 megohms.

After life or environmental tests 50 megohms.

Dielectric strength (sea level).

	<u>Initial</u>	After life tests
Coil to case Aux contacts	1,050 V rms	1,000 V rms
All other points	1,050 V rms	1,000 V rms

Dielectric strength (altitude).

	80,000 ft
Coil to case	1,000 V rms
Aux contacts	
All other points	1 000 V rms

Max contact drop initial
After life test
Overload current
Rupture current
Duty rating
RFI specification
(Applicable to coil circuits of ac operated relays).

Group A acceptance reports shall be submitted to the qualifying activity on a yearly basis in order to retain qualification for this specification.

Group B and group C testing are not required. The manufacturer shall notify the qualifying activity in the event of any design or construction changes, and shall impose additional testing requirements as necessary.

Qualification by similarity: See MIL-PRF-6106.

NOTES

Referenced documents. In addition to MIL-PRF-6106, this specification sheet references the following documents. (Government documents are available on line at http://assist.daps.dla.mil/quicksearch or www.dodssp.daps.mil or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

SPECIFICATIONS

Department of Defense

MIL-PRF-23586 - Sealing Compound (with Accelerator), Silicone Rubber, Electrical

STANDARDS

Department of Defense

MIL-STD-461 - Requirements for the Control of Electromagnetic Interference Characteristics of

Subsystems and Equipment

Custodians: Preparing activity:

Navy - AS DLA - ČC
Air Force - 11

DLA - CC (Project 5945-1214-05)

Review activities:

Air Force - 99 Navy - EC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at www.dodssp.daps.mil.